## HITACHI

**Reliable solutions** 

# ZW220





## WHEEL LOADER

Model Code: ZW220-5A Engine power: 144 kW (193 HP) Operating Weight: 16 810 - 17 380 kg Bucket ISO Heaped: 2.7 - 3.4 m<sup>3</sup>

# **Improved Fuel Economy and Amazing Performance**

The new ZW220 wheel loader combines excellent fuel economy with enhanced controllability. The "Active Engine Control System" - original Hitachi technology - determines operating status and adjusts engine speed while suppressing machine jerking. The ZW220 offers what is most needed today - fuel efficiency and productivity.

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<b>ZW Empower</b> your <b>Vision</b> .	At the second

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# **Vheel Loader**



## A 10% Fuel Saving

The "Active Engine Control System" can reduce fuel consumption by 10%, while enhancing controllability and productivity.

#### **Technology to Cut Fuel Consumption PICK UP**

Here are some fuel-saving techniques: avoiding rapid start of travel, and eliminating energy losses during excavation through variable displacement hydraulic pumps.



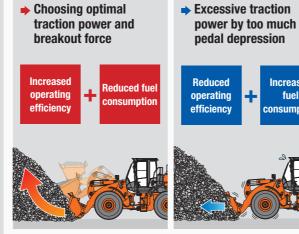
\* Compared to the conventional ZW220





The "Active Engine Control System" plays a key role achieving a 10% fuel saving. Strategically positioned sensors detect movements throughout the machine and adjust engine speed accordingly to eliminate energy losses to maximize fuel conservation. This delivers smooth, fuel-efficient operation.

## Active Engine Control System for Digging







Conventiona

The Active Engine Control System chooses optimal traction power and breakout force for smooth digging while improving fuel efficiency, utilizing data collected from the sensors on the machine.



2 Selectable Work Modes: **Standard and Power Modes** 



Standard mode is preselected and enough for ordinary work that requires constant power, such as loading. Power mode is selectable when extra power is needed.

### A Power Mode

Select this mode when extra power is needed, such as climbing a steep slope or getting the job done quickly.

### B Quick Power Switch (QPS)

Pressing the Quick Power Switch on the lever selects the Power mode. When switching forward/reverse, or when a reduction in traction is detected, the Standard mode resumes automatically. The Quick Power Switch helps save more fuel compared to operation when the Power mode is constantly selected.





**ECO Mark Indicator** for Fuel-Efficient Operation



#### Monitor indication items:

Clock, oil replacement intervals, travel speed, mileage, hour meter

The ECO mark indicator turns on when fuel-efficient operation is activated. This function encourages operators to utilize fuelefficient operation.

## **Enhanced Controllability**

Hitachi analyzed various wheel loader operations including digging, approach to a dump truck, operation after dumping and travel. This led to the development of strategies to improve wheel loader controllability.

## **PICK UP** New Transmission with 5 speed gears

The new transmission comes standard with the Auto mode\* that can automatically select an optimum gear according to the load, thereby reducing fuel consumption. Especially, the new transmission has 5 speed gears which can keep fuel efficient engine rpm more easily compared to the conventional transmission with 4 speed gears.

\* AUTO1 (1st-5th gear) and AUTO2 (2nd-5th gear) are selectable using travel mode selector.



Travel mode selector

NEW

## **NEW** Levers for Easy Operation







Two levers

In order to offer more efficient and comfortable operation, a new type of lever is employed to suit both fingertip control and grip control.

Grip control

\* A variety of lever patterns are available depending on job needs and operator's preference.



Speed-responding Clutch Cut-off System

Clutch cut-off timing is adjusted by sensing travel speed and pedal depression for smooth, efficient truck loading. The Flat mode, Slope mode and OFF are selectable by switch control according to job requirements.



Clutch cut position switch

## Lift Arm restriction valve

TACH

This restriction valve suppresses the shaking of the machine when the lift arm stops to improve operator comfort and avoid load spills.



## Lift Arm Auto Leveler (Optional)

The lift arm can be automatically stopped at an preset level for efficient truck-loading, and lowering the bucket after dumping. The operator can concentrate on traveling without worrying about the lift arm.



## **Operator-Friendly Features to Improve Operator Comfort**

The cab is both comfortable and functional with a series of features aimed at reducing operator fatigue.

#### **Bi-Level Auto Air Conditioner** PICK UP

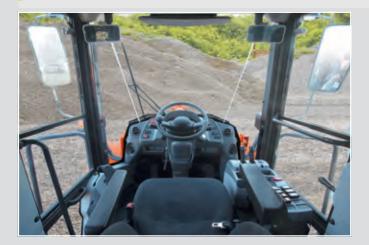
This auto air conditioner has bi-level control function: warming at foot space and cooling at overhead.

The pressurized cab shuts out dust, keeping the cab interior clean. In dusty environments, optional external double-filters are available for the air conditioner.





Panoramic Cab



The spacious panoramic cab offers near all-round visibility through pillar-less bonded windows. The seat and steering wheel can be adjusted to suit the operator, keeping the operator in an optimum position. In-cab noise is suppressed further. Even when the going gets tough, the operator can feel comfortable with less fatigue.

## **Tiltable Steering Wheel**

The steering wheel is tiltable to fit the wheel to the operator for comfortable operation.



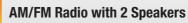
Tiltable steering wheel

## **Comfort-Designed Suspension Seat**

The mechanical suspension seat absorbs shocks and vibration from the machine in order to reduce operator's physical stresses to the operator.



Suspension seat



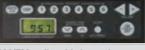
The AM/FM radio has an autotuning feature and the 2 speakers stereo system provides excellent

The player pocket can hold a cell

\* An AUX port (stereo mini jack) is an option for connection with a mobile music player for entertainment during breaks.

sound quality.

phone.



AM/FM radio with 2 speakers

Player holde

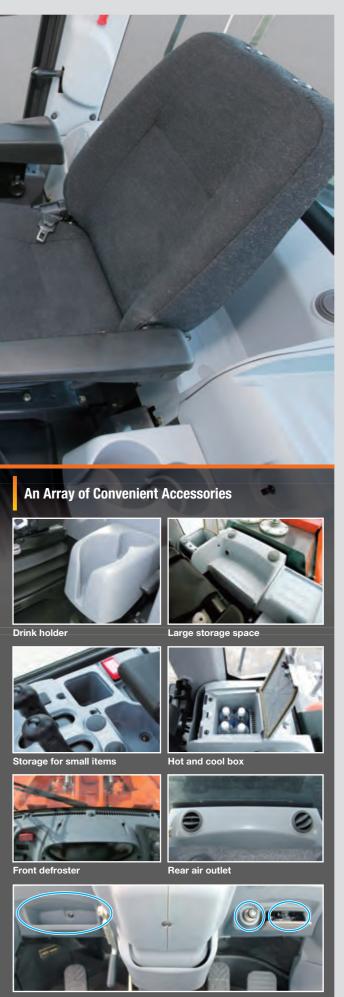
## NEW Rearview Monitor (Optional)

The rearview monitor allows the operator to see the rear of the machine, including a view behind the counterweight. This rearview monitor enhances safe operation.



Rearview camera Rearview monito





Glove compartment, cigarette lighter and ashtray

## **Simplified Maintenance with Proven Support System**

Hitachi Support Chain offers a comprehensive suite of support services for customers.

## **PICK UP**

**Simplified Maintenance** 

The engine cover swings up to provide a wide service space. Filters are concentrated for easy inspection and servicing from the ground.



A Fuel pre-filter B Main fuel filter C Engine oil gauge Window washer tank

## **Robust Frame**

The main frame and its joins are thoroughly strengthened. The boxsection structure is adopted around center pins, where concentrated forces are applied, for



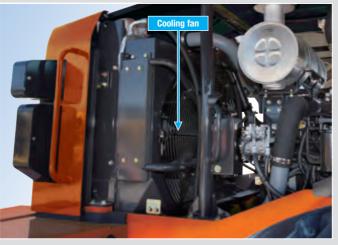
Nide fin pitch radi

Robust frame reinforcement. Frame plate thicknesses are optimally determined by 3D stress analysis.

## Wide Fin Pitch Radiator (Optional)

Wide fin pitch radiator is available for use in dusty environments, where there are large amounts of airborne debris, to avoid dust clogging and overheating as a result. Air blowing is easy and simple

## Automatic Reversible Cooling Fan (Optional) to Reduce Dust Deposits



The automatic reversible cooling fan is available to keep the radiator clean at all times. The cooling fan is automatically selfreversed every 30 minutes to blow dust off the radiator. The cover swings up for efficient air blowing.

## **Parts and Service**

## **Parts**

Hitachi Global Online Network, a parts supply system, is linked with CPD (Central Parts Depot), overseas depots and dealers abroad to deliver on-line parts information, including in-stock parts, order receptions, shipments and delivery period of over one million parts and components.

## Service

## ConSite

ConSite is a full-package service menu which is designed for Hitachi's machines used around the world. We closely monitor and support each machine working at each job site from various aspects, ensuring the best-tuned machines that are accommodated for the site condition and meet your specific needs.



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### **Genuine Hitachi Parts**

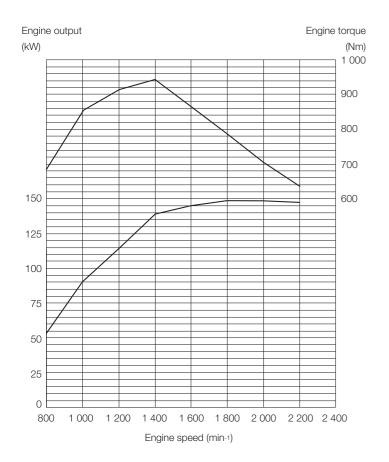
Genuine Hitachi parts, meeting Hitachi stringent quality standards, are guaranteed according to Hitachi warranty standards. The use of genuine Hitachi parts, including engine, fuel, hydraulic oil and filters, may slash running costs, and extend machine life.

## **Technical Training**

- On-site servicing matters despite locations to keep the machine at peak performance and reduce downtime.
- Technical Training Center (TTC), located in Japan, educates and trains service technicians and service support personnel coming from Hitachi dealers and factories on the globe according to the international training programs.

## **SPECIFICATIONS**

ENGINE	
Model	CUMMINS QSB6.7
Туре	4-cycle water-cooled, direct injection
Aspiration	Turbocharger and intercooled
No. of cylinders	6
Maximum power	
SAE J1995/ISO14396, gross	145 kW (194 HP) at 2 000 rpm
SAE J1349/ISO 9249, net	144 kW (193 HP) at 1 800 rpm
Rated power	
SAE J1995, gross	144 kW (193 HP) at 2 200 rpm
Maximum torque	931 Nm at 1 400 min-1 (rpm)
Bore and stroke	107 mm X 124 mm
Piston displacement	6.690 L
Batteries	2 X 12 V
Air cleaner	Two element dry type with restriction indicator



### **POWER TRAIN**

Transmission	Torque converter, countershaft type powershift with computer-controlled automatic shift and man- ual shift features included.
Torque converter	Three element, single stage, single phase
Main clutch	Wet hydraulic, multi-disc type
Cooling method	Forced circulation type
Travel speed* Forward / Re	everse
1st	6.7 / 7.0 km/h (6.7 / 7.1 km/h)
2nd	11.4 / 12.0 km/h (11.7 / 12.3 km/h)
	16.7 / 25.9 km/h (17.5 / 27.3 km/h)
4th	24.8 km/h (26.1 km/h)
5th	37.4 km/h (37.4 km/h)
*With 23.5-25-16PR (L3) ti	res
(): Data at Power Mode	

(): Data at Power Mode

AXLE AND FINAL DRI	VE
Drive system	Four-wheel drive system
Front & rear axle	Semi-floating
Front	Fixed to the front frame
Rear	Trunnion support
Reduction and	
differential gear	Two stage reduction with conventional differential
Oscillation angle	Total 24° (+12°,-12°)
Final drives	Heavy-duty planetary, mounted outboard

Fire size	23.5-25-16PR (L3)
Optional	Refer to standard & optional equipment list

BRAKES	
Service brakes	Outboard mounted fully hydraulic 4 wheel wet disc brake. Front & rear independent brake circuit
Parking brakes	Spring applied, hydraulically released, dry disc type with external output shaft

### STEERING SYSTEM

Гуре	Articulated frame steering
Steering angle	Each direction 40° ; total 80°
Cylinders	Double-acting piston type
No. x Bore x Stroke	2 x 70 mm x 442 mm

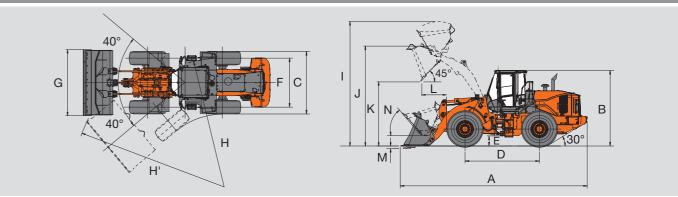
## HYDRAULIC SYSTEM

Arm and bucket are controlled by independent control lever Arm controls ...... Four position valve ; Raise, hold, lower, float Bucket controls with automatic bucket return-to-dig control ...... Three position valve ; Roll back, hold, dump Main pump (Serve as steering pump) ... Variable Displacement Axial Plunger Pump Maximum flow ...... 271 L/min at 2 170 min-1 (rpm) Maximum pressure .. 27.4 MPa Fan pump Fixed Displacement Gear Pump Maximum flow ......... 80.5 L/min at 2 200 min-1 (rpm) Maximum pressure .. 19.0 MPa Hydraulic cylinders ... Double acting type Туре ..... No. x Bore x Stroke ... Arm : 2 x 130 mm x 880 mm Bucket : 1 x 165 mm x 510 mm Filters .... ..... Full-flow 15 micron return filter in reservoir Hydraulic cycle times Lift arm raise ..... 5.9 s (5.6 s) Lift arm lower ...... 3.3 s (3.3 s) Bucket dump ..... 1.2 s (1.2 s) Total ..... ..... 10.4 s (10.1 s) (): Data at Power Mode

## SERVICE REFILL CAPACITIES

Fuel tank	255 L
Engine coolant	25 L
Engine oil	25 L
Torque converter & transmission	40 L
Front axle differential & wheel hubs	35 L
Rear axle differential & wheel hubs	35 L
Hydraulic oil tank	114 L

## **DIMENSIONS & SPECIFICATIONS**

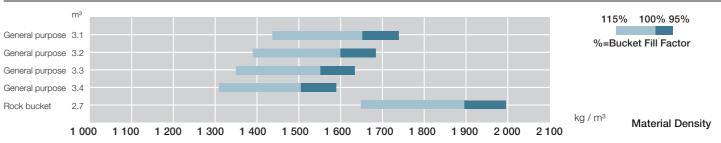


					Standard arm			High lift Arm
Bucket type			General purpose Rock bucket					General purpose
			Bolt-on cutting edge Bolt-on teeth		n teeth	Bolt-on teeth	Bolt-on cutting edge	
Bucket capacity	ISO heaped	mз	3.2	3.4	3.1	3.3	2.7	2.7
Bucker capacity	ISO struck	mз	2.6	2.8	2.7	2.8	2.3	2.3
A Overall length		mm	8 200	8 250	8 350	8 390	8 290	8 580
B Overall height		mm			3 3	375		
C Width over tires		mm			27	785		
D Wheel base		mm			3 3	300		
E Ground clearance		mm			4	55		
F Tread		mm			2 1	160		
G Bucket width		mm			2 9	910		
H Turning radius (Centerline of	outside tire)	mm			. 56	520		
H' Loader clearance radius, buc	cket in carry position	mm	6 590	6 600	6 630	6 650	6 620	6 760
I Overall operating height		mm	5 480	5 530	5 480	5 530	5 480	5 760
J Height to bucket hinge pin, fi	ully raised	mm			4 090			4 500
K Dumping clearance 45 degree	e, full height	mm	2 920	2 880	2 810	2 780	2 850	3 420
L Reach, 45 degree dump, full	height	mm	1 110	1 140	1 190	1 220	1 150	1 170
M Digging depth (Horizontal dig	ging angle)	mm	100	100	120	120	120	180
N Max. roll back at carry position		deg	50					
Obstin tinging logal t	Straight	kg	13 810	13 760	14 040	13 990	13 390	11 090
Static tipping load *	Full 40 degree turn	kg	11 940	11 890	12 150	12 100	11 510	9 540
Breakout force		kgf	15 150	14 580	16 460	15 820	17 100	15 550
		kN	149	143	161	155	168	153
Operating weight (with ROPS/FOF	PS cab)*	kg	17 100	17 140	17 020	17 060	17 590	17 220

## WEIGHT CHANGE

		Operating weight	Tipping load (kg)		Overall width	Overall height	Overall length
	Option item (kg)		Straight	Full turn	(mm) (outside tire)	(mm)	(mm)
Tire	23.5-25-16PR(L3)	±0	±0	±0	±0	±0	±0
	23.5R25(L3)	+200	+150	+130	+40	-10	+10
	23.5R25(L5)	+700	+530	+470	+50	+20	-10
Belly gurad		+170	+120	+110	-	-	-
2 270 kg Counter weig	ht	+340	+780	+690	-	-	-

### BUCKET SELECTION GUIDE



Note: All dimensions, weight and performance data based on ISO 6746-1:1987, ISO 7131:2009 and ISO 7546:1983 \*: Static tipping load and operating weight marked with \* include 23.5-25-16PR(L3) tires (No ballast) with lubricants, full fuel tank, 1930kg counter weight ROPS cab and operator. Machine stability and operating weight depend on counterweight, tire size and other attachments.

## **EQUIPMENT**

OPERATOR'S STATION	
Adjustable steering column	٠
Ashtray, cigar lighter	٠
Audio	
AM/FM radio	٠
AM/FM radio with AUX for digital audio player	0
Auto control air conditioner	
with single intake filter	٠
Cab	
ROPS (ISO3471), FOPS (ISO3449)	٠
Coat hook	٠
Front/Rear defroster	٠
Glove compartment	٠
Rear view camera & monitor	0
Rear view mirrors	
Inside (2)	٠
Outside (2)	٠
Retractable seat belt, 50mm	٠
Rubber floor mat	٠
Seat	
Mechanical suspension seat: fabric, high back, adjustable for armrest angle, fore-aft position, reclining angle and weight-height.	٠
Storage	
Cup holder	٠
Digital audio player holder	٠
Document holder	٠
Hot & cool box	٠
Seatback pocket	٠
Sun visor	٠
Textured steering wheel with spinner knob	٠
Safety glass (tempered)	٠
Windshield washer front and rear	٠
Windshield wipers front and rear	٠

EL	ECTRI	CAL S	YSTEM

•
•
0
0

 ..... Standard equipment O ..... Optional equipment

## **COOLING SYSTEM**

•
0
•
٠
0

Brake & tail lights Clearance lights	•
Clearance lights	٠
Headlights	٠
Turn signals with hazard switch	٠
Work lights	
Front lights on cab (2)	٠
Rear lights on rear grille side cover (2)	٠

POWER TRAIN	
Automatic transmission with load sensing system	٠
Clutch cut position switch	٠
Differential	
Conventional differential	٠
LSD (Limited Slip Differential, front)	0
DSS (Down Shift Switch)	٠
Forward/Reverse lever	•
Power mode switch	•
Quick power switch	٠
Travel mode selector (Auto1-Auto2)	٠
1st speed fixed switch	٠

## ENGINE

Air intake	
Rain cap	•
Pre-cleaner (Sy-Klone)	0
Pre-cleaner (Bowl type)	0
Air filter double elements	•
Cartridge-type engine oil filter	•
Cartridge-type fuel pre-filter	•
Cartridge-type fuel main filter	•
Engine oil remote drain	•

MONITORING SYSTEM	
Gauge: coolant temperature, fuel, transmission oil temperature	
ndicator lights: air filter restriction, brake oil low pressure, clearance lights, control ever lock, discharge warning, emergency steering, engine warning, fan reverse, fuel ilter restriction, forward/reverse selector switch, high beam, hydraulic oil temperature, maintenance, parking brake, power mode, preheat, seat belt, service, transmission oil emperature, transmission warning, turn signals, water separator, work lights	(
CD monitor display: clock, ECO, F-N-R/Shift position, hold, hour meter, odometer, replacement intervals, ride control, speedometer	(
Narning lights: brake oil low pressure, engine oil low pressure, overheat, steering oil low pressure	(

BRAKE SYSTEM	
Front & rear independent brake circuit	•
Outboard mounted fully hydraulic 4 wheel wet disc	•
Pedal	
Single brake pedal	•
Double (LH & RH) brake pedal	0
Spring-set/Hydraulic-released parking brake	•

## HYDRAULIC SYSTEM Bucket auto leveler (Automatic return to dig control) • Control lever for 2 spools control valve 2 levers Multifunction lever (MF lever) 0 for 3 spools control valve MF lever & AUX lever for 3rd function 0 2 levers & AUX lever for 3rd function - Outside layout pattern (Bucket - liftarm - 3rd) 0 Control lever lock switch • Dual lift arm auto leveler 0 Hydraulic filters • Lift arm float system • Reservoir sight gauge • Ride control system (OFF-AUTO type) 0

23.5-25-16PR (L3) 0 23.5R25 (L3) 0 23.5R25 (L5) 0 MISCELLANEOUS Articulation lock bar Belly guard (Boit on type) 0 Bucket cylinder guard 0 Counter weight 1 930 kg counter weight 1 930 kg counter weight 2 270 kg counter weight 0 Drawbar with locking pin Emergency steering 0 Fenders for 23.5-25-16PR Front & half covered rear fenders for 23.5-25-16PR Front & full covered rear fenders Front & full covered rear fenders 0 Global e-service Lift arm Standard lift arm High lift arm High lift arm 0 Lift & tie down hooks 0 n board information controller Pilfer proof Battery cover with locking bracket Lockable engine cover Lockable fuel refilling cap Anti-vandal protection Battery cover with locking bracket Lockable fuel refilling cap	TIRES	
23.5R25 (L5)       0         MISCELLANEOUS       •         Articulation lock bar       •         Belly guard (Bolt on type)       0         Bucket cylinder guard       0         Counter weight       •         1 930 kg counter weight       •         2 270 kg counter weight       •         2 270 kg counter weight       •         Drawbar with locking pin       •         Emergency steering       •         Frenders       •         for 23.5-25-16PR       •         Front & half covered rear fenders       •         Front & full covered rear fenders with mud flaps       •         Global e-service       •         Lift arm       •         Standard lift arm       •         High lift arm       •         High lift arm       •         Un board information controller       •         Pilfer proof       •         Battery cover with locking bracket       •         Lockable engine cover       •         Lockable fuel refilling cap       •         Anti-vandal protection       •         Battery cover with locking bracket       •         Lockable engine cover       • </td <td>23.5-25-16PR (L3)</td> <td>٠</td>	23.5-25-16PR (L3)	٠
MISCELLANEOUS         Articulation lock bar       ●         Belly guard (Bolt on type)       O         Bucket cylinder guard       O         Counter weight       ●         1 930 kg counter weight       ●         2 270 kg counter weight       ●         Drawbar with locking pin       ●         Emergency steering       O         Fenders       ●         for 23.5-25-16PR       ●         Front & half covered rear fenders       ●         Front & full covered rear fenders       ●         Front & full covered rear fenders       ●         Ift arm       ●         Standard lift arm       ●         High lift arm       O         Lift & tie down hooks       ●         On board information controller       ●         Pilfer proof       ●         Battery cover with locking bracket       ●         Lockable engine cover       ●         Lockable fuel refilling cap       ●         Anti-vandal protection       ●         Battery cover with locking bracket       ●         Lockable engine cover       ●	23.5R25 (L3)	0
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Bucket cylinder guard       O         Counter weight       •         1 930 kg counter weight       •         2 270 kg counter weight       •         Drawbar with locking pin       •         Emergency steering       •         Fenders       •         for 23.5-25-16PR       •         Front & half covered rear fenders       •         Front & full covered rear fenders       •         Global e-service       •         Lift arm       •         Standard lift arm       •         High lift arm       •         On board information controller       •         Pilfer proof       •         Battery cover with locking bracket       •         Lockable fuel refilling cap       •         Anti-vandal protection       •         Battery cover with locking bracket       •         Lockable engine cover       •	Articulation lock bar	•
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Drawbar with locking pin       •         Emergency steering       O         Fenders       •         for 23.5-25-16PR       •         Front & half covered rear fenders       •         Front & full covered rear fenders with mud flaps       O         Global e-service       •         Lift arm       •         Standard lift arm       •         High lift arm       O         Lift & tie down hooks       •         On board information controller       •         Pilfer proof       •         Battery cover with locking bracket       •         Lockable engine cover       •         Lockable fuel refilling cap       •         Anti-vandal protection       •         Battery cover with locking bracket       •         Lockable engine cover       •         Lockable engine cover       •         Lockable engine cover       •	1 930 kg counter weight	٠
Emergency steering       O         Fenders       for 23.5-25-16PR         Front & half covered rear fenders       •         Front & full covered rear fenders with mud flaps       O         Global e-service       •         Lift arm       •         Standard lift arm       •         High lift arm       O         Lift & tie down hooks       •         On board information controller       •         Pilfer proof       •         Battery cover with locking bracket       •         Lockable engine cover       •         Anti-vandal protection       •         Battery cover with locking bracket       •         Lockable engine cover       •         Lockable engine cover       •         Lockable fuel refilling cap       •	2 270 kg counter weight	0
Fenders       for 23.5-25-16PR         Front & half covered rear fenders       •         Front & full covered rear fenders with mud flaps       O         Global e-service       •         Lift arm       •         Standard lift arm       •         High lift arm       O         Lift & tie down hooks       •         On board information controller       •         Pilfer proof       •         Lockable engine cover       •         Lockable fuel refilling cap       •         Anti-vandal protection       •         Battery cover with locking bracket       •         Lockable engine cover       •         Lockable engine cover       •         Lockable fuel refilling cap       •	Drawbar with locking pin	٠
for 23.5-25-16PR         Front & half covered rear fenders         Front & full covered rear fenders with mud flaps         O         Global e-service         Lift arm         Standard lift arm         High lift arm         O         Lift & tie down hooks         On board information controller         Pilfer proof         Battery cover with locking bracket         Lockable engine cover         Lockable fuel refilling cap         Anti-vandal protection         Battery cover with locking bracket         Lockable engine cover	Emergency steering	0
Front & half covered rear fenders Front & full covered rear fenders with mud flaps O Global e-service Lift arm Standard lift arm High lift arm O Lift & tie down hooks On board information controller Pilfer proof Battery cover with locking bracket Lockable engine cover Lockable fuel refilling cap Anti-vandal protection Battery cover with locking bracket Lockable engine cover	Fenders	
Front & full covered rear fenders with mud flaps       O         Global e-service       ●         Lift arm       Standard lift arm         Standard lift arm       ●         High lift arm       O         Lift & tie down hooks       ●         On board information controller       ●         Pilfer proof       ●         Lockable engine cover       ●         Lockable fuel refilling cap       ●         Anti-vandal protection       ●         Battery cover with locking bracket       ●         Lockable engine cover       ●         Lockable fuel refilling cap       ●         Anti-vandal protection       ●         Battery cover with locking bracket       ●         Lockable engine cover       ●	for 23.5-25-16PR	
Global e-service  Lift arm  Standard lift arm  High lift arm  O  Lift & tie down hooks  On board information controller  Pilfer proof  Battery cover with locking bracket  Lockable engine cover  Lockable fuel refilling cap  Anti-vandal protection  Battery cover with locking bracket  Lockable engine cover  Lockable engine cover	Front & half covered rear fenders	•
Lift arm          Standard lift arm       •         High lift arm       •         High lift arm       •         On board information controller       •         Pilfer proof       •         Battery cover with locking bracket       •         Lockable engine cover       •         Lockable fuel refilling cap       •         Anti-vandal protection       •         Battery cover with locking bracket       •         Lockable engine cover       •         Lockable fuel refilling cap       •	Front & full covered rear fenders with mud flaps	0
Standard lift arm       •         High lift arm       O         Lift & tie down hooks       •         On board information controller       •         Pilfer proof       •         Battery cover with locking bracket       •         Lockable engine cover       •         Lockable fuel refilling cap       •         Anti-vandal protection       •         Battery cover with locking bracket       •         Lockable engine cover       •         Lockable fuel refilling cap       •	Global e-service	•
High lift arm       O         Lift & tie down hooks       •         On board information controller       •         Pilfer proof       •         Battery cover with locking bracket       •         Lockable engine cover       •         Lockable fuel refilling cap       •         Anti-vandal protection       •         Battery cover with locking bracket       •         Lockable engine cover       •	Lift arm	
Lift & tie down hooks  On board information controller  Pilfer proof  Battery cover with locking bracket  Lockable engine cover  Lockable fuel refilling cap  Anti-vandal protection  Battery cover with locking bracket  Lockable engine cover	Standard lift arm	•
On board information controller  Pilfer proof  Battery cover with locking bracket  Lockable engine cover  Lockable fuel refilling cap  Anti-vandal protection  Battery cover with locking bracket  Lockable engine cover	High lift arm	0
Pilfer proof Battery cover with locking bracket Lockable engine cover Lockable fuel refilling cap Anti-vandal protection Battery cover with locking bracket Lockable engine cover	Lift & tie down hooks	•
Battery cover with locking bracket       ●         Lockable engine cover       ●         Lockable fuel refilling cap       ●         Anti-vandal protection       ●         Battery cover with locking bracket       ●         Lockable engine cover       ●	On board information controller	•
Lockable engine cover  Lockable fuel refilling cap  Anti-vandal protection  Battery cover with locking bracket Lockable engine cover	Pilfer proof	
Lockable fuel refilling cap         Anti-vandal protection         Battery cover with locking bracket         Lockable engine cover	Battery cover with locking bracket	•
Anti-vandal protection Battery cover with locking bracket Lockable engine cover	Lockable engine cover	•
Battery cover with locking bracket	Lockable fuel refilling cap	•
Lockable engine cover	Anti-vandal protection	
	Battery cover with locking bracket	
Lockable fuel refilling cap	Lockable engine cover	
	Lockable fuel refilling cap	

Standard and optional equipment may vary by country, so please consult your Hitachi dealer for details.



### **Hitachi Environmental Vision 2050**

Our Environmental Vision envisions a low-carbon society; a resource efficient society; a harmonized society with nature. To achieve such a sustainable society, we have established a set of long-term environmental targets called Hitachi Environmental Innovation 2050.

#### **Reducing Environmental Impact by New ZW**

Hitachi makes a green way to cut carbon emissions for global warming prevention according to LCA\*. New ZW utilizes many technological advances, including the new standard mode which optimizes fuel efficiency. Hitachi has long been committed to recycling of components, such as aluminum parts in radiators and oil coolers. Resin parts are marked for recycling.

Before using a machine with a satellite communication system, please make sure that the satellite communication system complies with local regulations, safety standards and legal requirements. If not so, please make modifications accordingly.

These specifications are subject to change without notice.

Illustrations and photos show the standard models, and may or may not include optional equipment, accessories, and all standard equipment with some differences in color and features. Before use, read and understand the Operator's Manual for proper operation.

## Hitachi Construction Machinery Co., Ltd. www.hitachi-c-m.com

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